

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

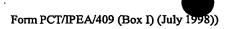
Applicant's or agent's file reference	т—————			
	FOR FURTHER ACTIO	Examination	cation of Transmittal of International Preliminary on Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/n	month/year)	Priority Date (day/month/year)	
PCT/BR 2002/000136	30 September 2002 (3	30.09.2002)	30 July 2002 (30.07.2002)	
International Patent Classification (IPC) or 1	national classification and IPC			
IPC ⁷ : F16L 9/147, 9/153				
Applicant				
COPPE/UFRJ - Coordenacao de			·	
 This international preliminary ex and is transmitted to the applicant 	amination report has been put according to Article 36.	repared by this I	nternational Preliminary Examination Authority	
2. This REPORT consists of a total	of 5 sheets, incl	uding this cover	sheet.	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a total of				
This report contains indications re	elating to the following items	s:		
I. Basis of the opin	nion			
II. Priority				
III. Non-establishme	III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
IV. Lack of unity of	invention			
V. Reasoned statem citations and ex	V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
VI. Certain documen	ats cited			
VII. Certain defects i	in the international application	on		
VIII. Certain observat	ions on the international app	olication		
Date of submission of the demand	D	ate of completion	on of this report	
29.01.2004	,	27 O	ctober 2004 (27.10.2004)	
Name and mailing address of the IPEA/AT		uthorized office	r	
Austrian Patent Office				
Oresdner Straße 87 A-1200 Vienna			WAGNER S.	
acsimile No. 1/53424/200		elenhone No. 1/	53424/381	
orm PCT/IPEA/409 (cover sheet) (July 1009)			03727/301	



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/BR 2002/000136

I.		Basis of the report
1.		regard to the elements of the international application:*
	\boxtimes	the international application as originally filed
		the description:
		pages, as originally filed
		pages, filed with the demand pages, filed with the letter of
		the claims:
		pages, as originally filed pages, as amended (together with any statement) under Article 19
		pages, as amended (together with any statement) under Article 19 pages, filed with the demand
		pages, filed with the letter of
		· ·
	ш	the drawings: pages, as originally filed
		pages, as originally fried pages, filed with the demand
		pages, filed with the letter of
	\Box	the sequence listing part of the description:
		pages, as originally filed
		pages, filed with the demand
		pages, filed with the letter of
2.	whic	h regard to the language, all the elements marked above were available or furnished to this Authority in the language in the international application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).
3.		h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international iminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos
		the drawings, sheets/fig
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
	in this	ncement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to is report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and
	70.17 <u>A</u> ny r	eplacement sheet containing such amendments must be referred to under item 1 and annexed to this report.





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ш.	Non-	establishment of opinion with regard to novelty, inventive step and industrial applicability			
1.	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
		the entire international application,			
		claims Nos			
		because: the said international application, or the said claims Nos. require an international preliminary examination (specify):			
		the description, claims or drawings (Indicate particular elements below) or said claims Nos. 6 are so unclear that no meaningful opinion could be formed (specify): The subjects of Claim 6 (mechanical strength, thermal insulation) are not patentable, because they are only tasks or effect specifications.			
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed. no international search report has been established for said claims Nos.			
2.	A n	neaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid the understand the standard provided for in Annex C of the Administrative Instructions: the written form has not been furnished or does not comply with the standard. the computer readable form has not been furnished or does not comply with the standard.			



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

nternational	application No.
	002/000136

V. Reasoned statement under Art citations and explanations sup	icle 35(2) porting sı	with regard to novelty, inventive step or industrial applicability; ach statement	
1. Statement			
Novelty (N)	Claims	1-5	YES
	Claims		NO
Inventive step (IS)	Claims	1-5	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-5	YES
	Claims		NO
Citations and explanations (Rule 70.	7)		

The following documents have been cited in the Search Report:

D1: US 5755265 A D2: WO 96/02785 A1

The documents cited in the search report merely describe the state of the art and are not considered of particular relevance concerning novelty and inventive step of the subject-matter of the present application.

They do not refer to a pipeline comprising a composite system with three superposed layers wherein one internal and external layer are made of metallic alloys and one intermediate layer made of composite materials with low thermal conductivity, high mechanical strength and good adherence with the internal and external pipes.

Therefore the subject matters of claim 1 are considered to be new and inventive.

The features of claims 2 to 5 (carbon steel, cement, polypropylene, warmed hydrocarbons) are also not shown by said documents and are therefore considered to be new and inventive.

Industrial applicability is given with respect to claims 1-5.



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VIII. Certain observations on the international application				
The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:				
It should be noticed, that the notation "cement" in connection with thermal insulation and high compressive strength is wrong. The right notation is "concrete".				
Form PCT/IPEA/409 (Box VIII) (July 1998)				